



#6

In re application of:

Crafton *et al.*

Appl. No. 09/987,763

Filed: November 15, 2001

For: **Nucleotide Sequences for
Transcriptional Regulation in
*Corynebacterium glutamicum***

Confirmation No. 71

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1533.1

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Information Disclosure Statement

Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. A copy of each of these documents is provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Attorney for Applicants
Registration No. 33,851

Date: March 7, 2002

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1533.1940002/MAC/MBTAPPLICATION NO.
09/987,763APPLICANT
Crafton et al.

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FILING DATE
November 15, 2001GROUP
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	TECH CENTER SUB- CLASS	1600/29.1 FILING DATE
	AA1	5,693,781	12/02/1997	Zupancic et al.	536	24.1	06/15/1993
	AB1	5,700,661	12/23/1997	Katsumata et al.	435	69.1	06/03/1996
	AC1	5,726,299	03/10/1998	Zupancic et al.	536	24.1	08/01/1994
	AD1	5,965,391	10/12/1999	Reinscheid et al.	435	69.1	05/08/1997
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>1</u>	Amann, E. et al., "Tightly regulated tac promoter vectors useful for the expression of unfused and fused proteins in <i>Escherichia coli</i> ," <i>Gene</i> 69:301-315, Elsevier Science Publishers B.V. (1988).
AS	<u>1</u>	Archer, J.A.C. and Sinskey, A.J., "The DNA sequence and minimal replicon of the <i>Corynebacterium glutamicum</i> plasmid pSR1: evidence of a common ancestry with plasmids from <i>C. diphtheriae</i> ," <i>J. Gen. Microbiol.</i> 139:1753-1759, Society for General Microbiology (1993).
AT	<u>1</u>	Ben-Samoun, K. et al., "Positively regulated expression of the <i>Escherichia coli</i> araBAD promoter in <i>Corynebacterium glutamicum</i> ," <i>FEMS Microbiol. Lett.</i> 174:125-130, Elsevier Science B.V. on behalf of the Federation of European Microbiological Societies (May 1999).

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	AP						Yes No

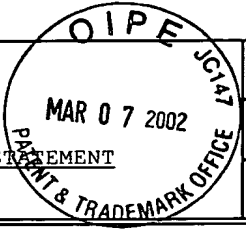
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Brosius, J. et al., "Spacing of the -10 and -35 Regions in the <i>tac</i> Promoter. Effect on its <i>in vivo</i> activity," <i>J. Biol. Chem.</i> 260:3539-3541, The American Society of Biological Chemists, Inc. (1985).
AS	2	Cremer, J. et al., "Regulation of Enzymes of Lysine Biosynthesis in <i>Corynebacterium glutamicum</i> ," <i>J. Gen. Microbiol.</i> 134:3221-3229, Society for General Microbiology (1988).
AT	2	Jobling, M.G. et al., "Construction of vectors with the p15a replicon, kanamycin resistance, inducible <i>lacZ</i> α and pUC18 or pUC19 multiple cloning sites," <i>Nucl. Acids Res.</i> 18:5315-5316, IRL Press (1990).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

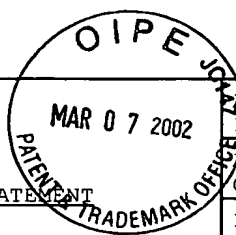
	AR	<u>3</u>	Keilhauer, C. et al., "Isoleucine Synthesis in <i>Corynebacterium glutamicum</i> : Molecular Analysis of the <i>ilvB-ilvN-ilvC</i> Operon," <i>J. Bacteriol.</i> 175:5595-5603, American Society for Microbiology (1993).
	AS	<u>3</u>	Lonsdale, D.M. et al., "pFC1 to pFC7: A Novel Family of Combinatorial Cloning Vectors," <i>Plant Molec. Biol. Rep.</i> 13:343-345, International Society for Molecular Plant Biology (1995).
	AT	<u>3</u>	Möckel, B. et al., "Functional and Structural Analyses of Threonine Dehydratase from <i>Corynebacterium glutamicum</i> ," <i>J. Bacteriol.</i> 174:8065-8072, American Society for Microbiology (1992).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Morinaga, Y. et al., "Expression of <i>Escherichia coli</i> promoters in <i>Brevibacterium lactofermentum</i> using the shuttle vector pEB003," <i>J. Biotechnol.</i> 5:305-312, Elsevier Science B.V. (1987).
	AS	<u>4</u>	Oguiza, J.A. et al., "A Gene Encoding Arginyl-tRNA Synthetase Is Located in the Upstream Region of the <i>lysA</i> Gene in <i>Brevibacterium lactofermentum</i> : Regulation of <i>argS-lysA</i> Cluster Expression by Arginine," <i>J. Bacteriol.</i> 175:7356-7362, American Society for Microbiology (1993).
	AT	<u>4</u>	Pátek, M. et al., "Leucine Synthesis in <i>Corynebacterium glutamicum</i> : Enzyme Activities, Structure of <i>leuA</i> , and Effect of <i>leuA</i> Inactivation on Lysine Synthesis," <i>Appl. Environ. Microbiol.</i> 60:133-140, American Society for Microbiology (1994).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>5</u>	Pátek, M. et al., "Promoters from <i>Corynebacterium glutamicum</i> : cloning, molecular analysis and search for a consensus motif," <i>Microbiol.</i> 142:1297-1309, Society for General Microbiology (1996).
AS	<u>5</u>	Reinscheid, D.J. et al., "Cloning, sequence analysis, expression and inactivation of the <i>Corynebacterium glutamicum</i> pta-ack operon encoding phosphotransacetylase and acetate kinase," <i>Microbiol.</i> 145:503-513, Society for General Microbiology (February 1999).
AT	<u>5</u>	Rossi, J.J. et al., "Biological expression of an <i>Escherichia coli</i> consensus sequence promoter and some mutant derivatives," <i>Proc. Natl. Acad. Sci. USA</i> 80:3203-3207, The National Academy of Sciences (1983).

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FORM PTO-144

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>6</u>	Sahm, H. et al., "Construction of L-Lysine-, L-Threonine-, or L-Isoleucine-Overproducing Strains of <i>Corynebacterium glutamicum</i> ," <i>Annals New York Acad. Sci.</i> 782:25-39, The New York Academy of Sciences (1996).
AS	<u>6</u>	Vašicová, P. et al., "Analysis of the <i>Corynebacterium glutamicum</i> <i>dapA</i> Promoter," <i>J. Bacteriol.</i> 181:6188-6191, American Society for Microbiology (October 1999).
AT	<u>6</u>	Wendisch, V.F. et al., "Regulation of acetate metabolism in <i>Corynebacterium glutamicum</i> : transcriptional control of the isocitrate lyase and malate synthase genes," <i>Arch. Microbiol.</i> 168:262-269, Springer-Verlag (1997).

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